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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/768,179	02/02/2004	David H. Eppes	64965-173	5-173 3662	
	7590 12/02/2005 MCDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096			EXAM	EXAMINER	
				NHU, DAVID		
				ART UNIT	PAPER NUMBER	
	,, acimigion, 2			2818		
				DATE MAILED: 12/02/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/768,179	EPPES, DAVID H.			
	Office Action Summary	Examiner	Art Unit			
		David Nhu	2818			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address			
WHIC - Exte after - If NC - Failt Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAY IN THE MAILING THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 18 N	ovember 2005.				
2a)⊠	∑ This action is FINAL. 2b) This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4) 🖂	Claim(s) 1-20 is/are pending in the application.					
.,ح	4a) Of the above claim(s) <u>1-8</u> is/are withdrawn from consideration.					
5)⊠	Claim(s) <u>9-15</u> is/are allowed.					
6)⊠	Claim(s) 16-20 is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
9) 🗌	The specification is objected to by the Examine	r.				
•	The drawing(s) filed on is/are: a) acce		Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents)-(d) or (f).			
	2. Certified copies of the priority documents	s have been received in Applicati	ion No			
	3. Copies of the certified copies of the prior	<u>-</u>	ed in this National Stage			
	application from the International Bureau		,			
* (See the attached detailed Office action for a list	of the certified copies not receive	ed.			
		Si	1882			
Attachmer	nt(s)					
1) 🔲 Notic	ce of References Cited (PTO-892)	4) Interview Summary				
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D	ate Patent Application (PTO-152)			
	er No(s)/Mail Date	6) Other:	TF (/			

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FINAL

DETAILED ACTIONS

Election/Restrictions

1. Applicant's election of Group II (Claims 9-20) with traverse, is acknowledge.

Claims 9-20 are remained for examination. Accordingly, claims 1-8 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Because Applicant did not distinctly and specifically point out the supposed error in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Applicants have the right to file a divisional, continuation or continuation-in-part application covering the subject matter of the non-elected claims. The traversal is on the ground(s) that see the election paper. This is not found persuasive because the fields of search for method' and device claims are NOT coextensive and the determinations of patentability of method and device claims are different, that is process limitations and device limitations are given weight differently in determining the patentablitity of the claimed inventions. Also, the strategies for doing text searching of the device claims and method claims are different. Thus, separate searches are required.

The requirement is still deemed proper and is therefore made **FINAL**.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art

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to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was

3. **Regarding claim 16**, BOI, (see pages 1-2), teaches a semiconductor arrangement comprising: a main die area; a surrounding area circumferentially surrounding the main die area (see page 1, lines 3-6).

BOI fails to teaches crack stop elements in the surrounding area.

However, Adkisson, (see figures 1-5, col. 4, lines 48-64, col. 6, lines 1-44), teaches crack stop 30 in the surrounding area ((see figure 2, col. 5, lines 6-23).

Regarding claims 10-12, 14-15, 17-18, 20, BOI, pages 1-2, Adkisson, figures 1-5, col. 1-8, also teach the scribe line monitor area includes at least a first metal layer, a dielectric layer on the first metal layer, and a second metal layer on the first dielectric layer; the stress relief elements include dummy vias/holes 22, 26 in the scribe line monitor; wherein the dielectric layer is a low k-dielectric layer 24; wherein at least one of the dummy vias/holes is connected between one of the metal layer and one of the second metal layer; wherein the scribe line monitor area includes a saw lane, the dummy vias/holes being located between the saw lane and the main die area; the crack stop elements include dummy vias/holes (see figure 4).

It would have been obvious to one having ordinary skill in the art at the time of the present invention to apply the teachings of Adkisson into the method of BOI as both are related to the same subject matter of providing a semiconductor device/IC and other connection arrangements which include die/fuse elements by using low k-dielectric constant material layer.

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Allowable Subject Matter

4. Claims 9-15 are allowed.

Claims 13, 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Claims 9, 13,19 include allowable subject matter since the prior made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Because BOI and Adkisson do not teach each of the first and second metal layers including non-functional metal tiles; stress relief elements in the scribe line monitor area.

Conclusion

- 5. THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 6. The prior art made of record and not relied upon is considered pertinent to

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applicant's disclosure: Greer'681, Tsai'296, Guillot'618, Inoue'261, Chen'924 are cited as of interest.

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7. A shortened statutory period for response to this action is set to expired 3 (three) months from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see 710.02 (b)).

8. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the patent application information retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lando G

David Nhu

November 30, 2005